

Energy and Water Management Plan

The University of Texas at Tyler

October 2017

1. Progress Report:
 - a. We have been slowly changing out old lighting with newer LEDs throughout campus on a case-by-case basis so far.
 - b. We have completely retrofitted one building (PHE) with VFDs.
 - c. Savings through BAS adjustments have been problematic due to a lab building being put on 24/7 occupied.
2. Goals:
 - a. Our goal is still 5% energy savings based on a 2015 baseline with a target of Jan 1, 2019.
3. Strategy for Achieving Goals:
 - a. We have an exterior lighting LED retrofit in the planning phase right now
 - b. VFD conversion will take place in additional locations
 - c. Interior LED conversion projects are scheduled in large venues
 - d. Main hydronic loop upgrades are in the planning process
 - e. BAS upgrades are being implemented to reduce energy consumption
4. Implementation Schedule:
 - a. Exterior LED retrofit to be completed in phases in 2017 and 2018
 - b. Interior LED retrofit to be completed in select venues 2017
 - c. VFD conversion of one building a year to continue
 - d. BAS upgrades to come online summer of 2018
 - e. Hydronic loop upgrades/repairs to be completed by winter 2018
5. Finance Strategy
 - a. We were granted LEER funding for the exterior lighting upgrade and hydronic repair/upgrade
 - i. Exterior Lighting: \$250,000
 - ii. Hydronic Repairs/Upgrade: \$950,000
 - iii. VFD Conversion: ~\$25,000 per building
 - iv. BAS Upgrades: Part of STEM Business Building capital project
 - v. Interior LED Upgrade to Select Venues: \$100,000
 - b. Additional funds for investment into energy savings measures will be realized through future utility savings.
6. \$5,914.10 in gasoline was purchased in 2017 to date.
7. Development of an energy dash board for the department website along with electronic signs within the local building.
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